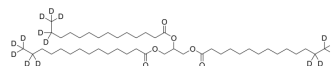


Trimyristin--d₁₅

| | |
|---------------------------|---|
| Cat. No.: | HY-N2511S |
| CAS No.: | 1219804-94-0 |
| Molecular Formula: | C ₄₅ H ₇₁ D ₁₅ O ₆ |
| Molecular Weight: | 738.25 |
| Target: | Cholinesterase (ChE); Phosphatase; Endogenous Metabolite; Isotope-Labeled Compounds |
| Pathway: | Neuronal Signaling; Metabolic Enzyme/Protease; Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Trimyristin--d ₁₅ is the deuterium labeled Trimyristin. Trimyristin, an active molluscicidal component of Myristica fragrans Houtt, significantly inhibits acetylcholinesterase (AChE), acid and alkaline phosphatase (ACP/ALP) activities in the nervous tissue of Lymnaea acuminata. IC50s of Trimyristin against AChE, ACP, and ALP are 0.11, 0.16 and 0.18 mM, respectively[1]. |
| In Vitro | Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Jaiswal P, et al. Enzyme Inhibition by Molluscicidal Components of Myristica fragrans Houtt. in the Nervous Tissue of Snail Lymnaea acuminata. *Enzyme Res*. 2010;2010:478746.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA